Rexroth
Bosch Group

CS 550/150RC

Spreader Joystick Controller Installation Manual

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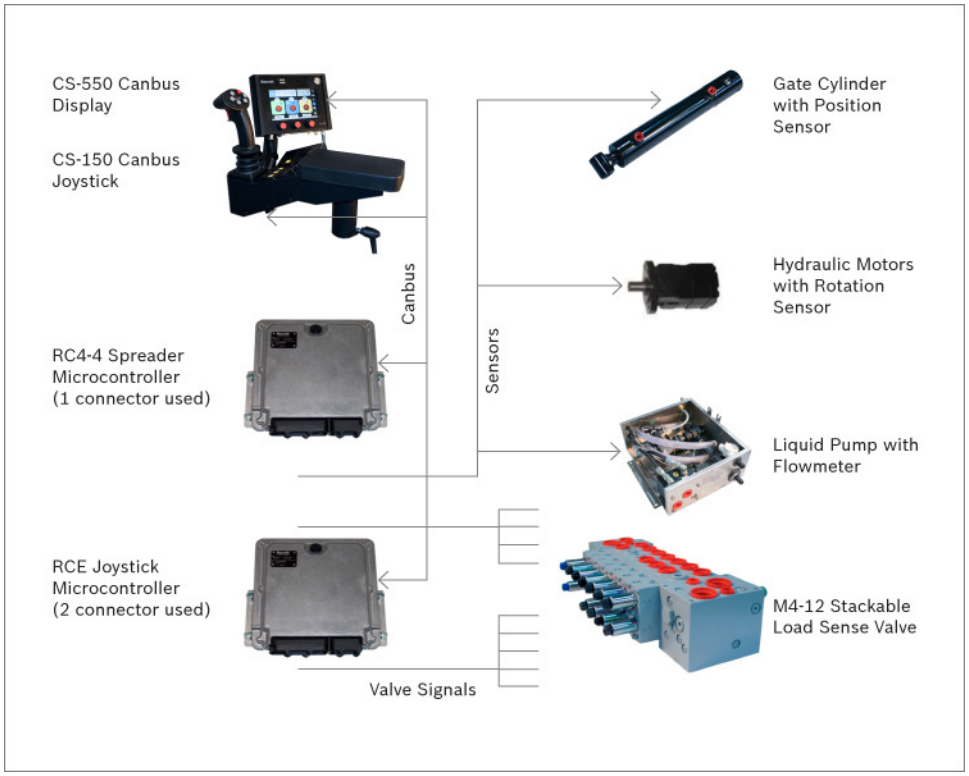
Please check for updates at: www.boschrexroth.ca/compu-spread

1 System Components



2 Spreader System Layout

See Appendix (CS-550 System Layout Drawing).

3 Joystick System Layout

See Appendix (CS550-150RC System Layout Drawing).

The following is a detailed navigation chart for the system layout. See Appendix for the detailed system layout including all the components and part numbers.

CS-550 / 150 ELECTRONIC SYSTEM BUILDER

TABLE OF CONTENTS

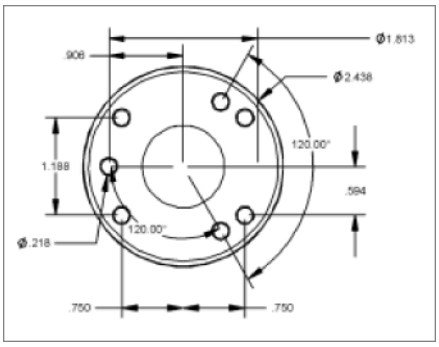
ITEM	DESCRIPTION	COORDINATES X.Y	DETAILS
	550 SPREADER		
1	SPREADER PACKAGES	E1	DISPLAY AND RC INCLUDED
2	MAIN HARNESS	D7	ADVANCED OR LITE
3	CANBUS CABLES	C2	
4	SENSOR EXTENSIONS	B6	
5	SENSOR NETWORK	C6	PULL-UP RESISTOR (WHITE MOTOR)
6	VEHICLE SPEED	B7	
7	VALVE EXTENSIONS	E6	IF RC LOCATED IN CAB
8	550 AUXILIARY CABLE	E3	MATERIAL DETECT / CHANGE
9	VALVE ADAPTER	E6	(C4M TO ITT) FOR OLD SCB/MP18
	150 ARMREST		
1	RCE CABLES	A3	IN-VALVE OR IN-CAB
2	POWER FLOAT	C4	NO ADAPTERS FOR NEW C4 BLOCK
3	150 AUXILIARY	B2	
4	CANBUS CABLE	C2	
5	LOW OIL, SPIN. REV.	C3	ADAPTERS REQUIRED
	SPECIAL FUNCTIONS		
1	PRESSURE/TEMP/CHUTE	D3	HYDRAULIC MONITORING
2	ROAD TEMP	D0	ROAD AND AMBIENT TEMP
3	WIFI	D2	NEED EXTENSION?
4	GPS PUCK	E0	
5	ANTI-ICE	E4	USE C4-C4 EXTENSIONS (CUT END)
	TOW PLOW		
1	TP SPREADER PKG	E1	INCLUDES TWO 4-4's
2	MAIN HARNESS	D9	
3	CANBUS SPLITTER	D6	
4	SENSOR EXTENSIONS	B6	RC ON TRUCK OR TRAILER?
5	SENSOR NETWORK	C6	IF PULL-UP RESISTORS REQUIRED
6	VALVE EXTENSIONS	E6	RC ON TRUCK OR TRAILER?

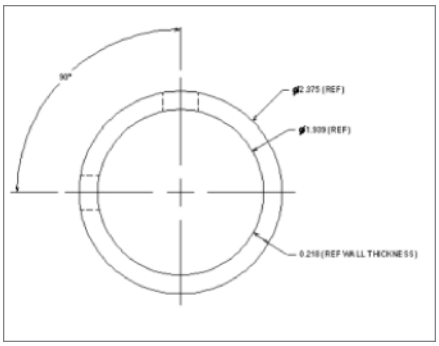
4 Mounting

4.1 Microcontroller

1. The microcontrollers(s) can be mounted horizontal or with the connectors oriented to the bottom. The controller cannot be mounted with the connectors facing upwards.
2. The mounting surface must be flat and all four bracket holes used.
3. Sufficient space must be allowed for the mating and un-mating of the connectors.
4. If the controller is mounted in the cab, valve extension cables are required to be routed into the valve enclosure.
5. If the controller is mounted in the valve enclosure, the main harness leads will terminate directly to the valve solenoid.
6. The mount hole spacing is 188mm (7.4”) by 59mm (2.32”).
7. See the “Installation Notes” for additional recommendations (page 15).

4.2 Display and Joystick

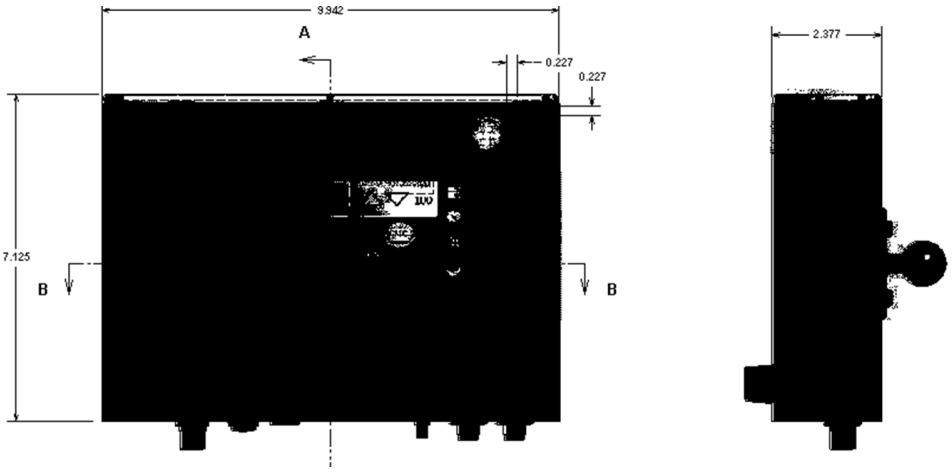




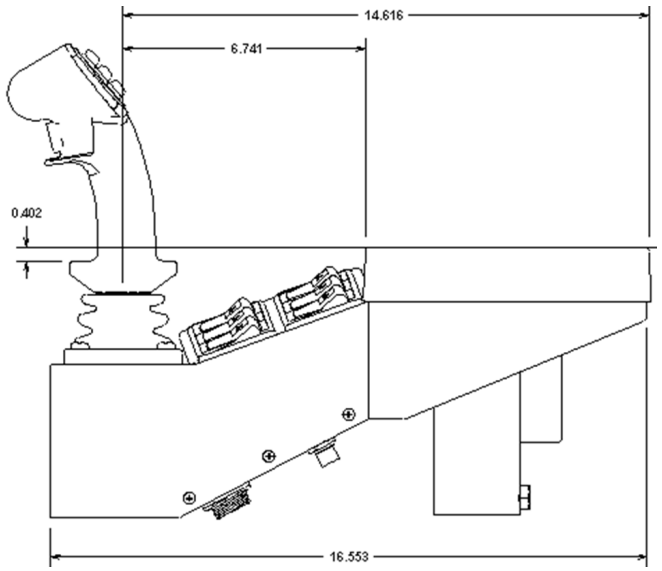
1. The display utilizes a ball mount where 4 holes of the flange must be secured. (See hole array.)
2. Similar ball mounts are used when the display is coupled to the armrest – one long arm and one short.
3. The joystick armrest console utilizes a tube mount that slips over 1-7/8” O/D pedestal tubing.
4. The tube mount can slide forward and back 1.7” to optimize the armrest position. (Loosen the ¼-20 nuts.)
5. The ratchet clamp can be used to lock the rotation of the tube and bracket.
6. See the “Installation Notes” for additional recommendations (page 15).

5 Dimensions

5.1 Display



5.2 Joystick



6 Connector Details

6.1 Microcontroller Connection

1. Extend sliding tabs.
2. Partially insert connector into socket and ensure the 4 coding posts align into housing.
3. Push sliding tabs in and the connector will fully insert and lock itself.
4. To remove, pull the tabs out and the connector will un-mate.

Note: The RC4-4 “Spreader” controller uses only the larger connector, while the RCE “Joystick” controller uses both.

6.2 Solenoid Connection

1. Push on the connector to mate.

2. Press metal retainer to un-mate.

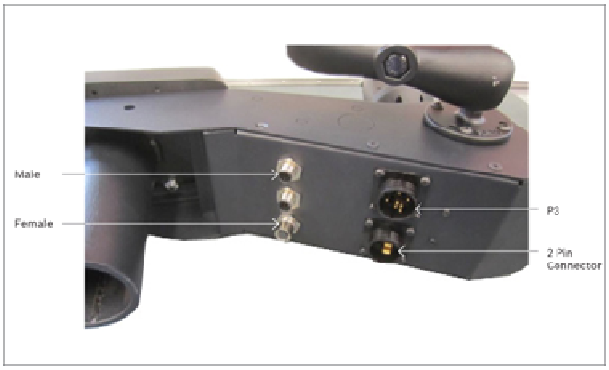
7 Cable Connections

7.1 Cable Connections

Connect the CANBUS EXTENSION from CAN1 to the CANBUS lead on the main harness or to the FEMALE CONNECTOR on the armrest (if equipped).

Connect the MALE CONNECTOR to CAN2 of the RCE harness.

If switches are present: Connect the power harness to the ignition, disconnect then to the 2 PIN CONNECTOR.



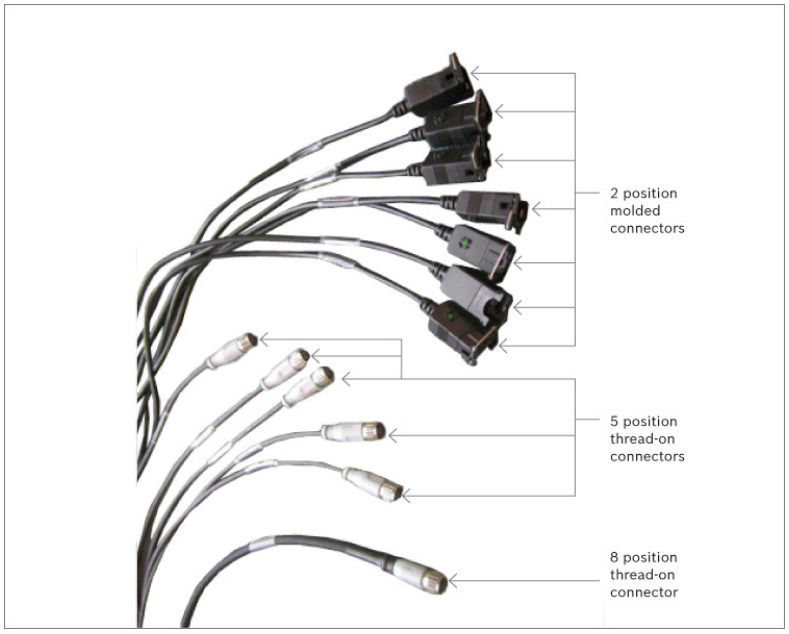
- P3 interconnects with the 16 PIN ARMREST CONNECTOR. Connect the power harness to battery or ignition disconnect.
- P5 is for the AUXILIARY CABLE with bare leads. (See OSD for pinouts.)

7.2 Main Harness Connections

All **2 POSITION MOLDED CONNECTORS** with diagnostic LEDs are for solenoids. Each leg has a function label.

Note: Valve extensions are required if the microcontroller is mounted in the cab (see page 7, note 4, 5).

- All **5 POSITION THREAD-ON** connectors are for sensors.
- The **8 POSITION THREAD-ON** connectors are for CANBUS and auxiliary digital inputs. (See layouts on pages 4 to 6.)
- See system layout for **Auxiliary Cable** ad **Remote Pause/Blast.**
- See installation notes for routing details (page 15).
- See function chart for connection details (page 13, 14).



NOTE: INLINE SENSOR NETWORK(PN:R987376742) NEEDS TO BE INSTALLED FOR SENSORS LIKE WHITE MOTOR REQUIRED A PULL-UP RESISTOR.

8 Cable Function Chart

Standard CS550 Cable Harness (PN: R987376368)

Cable Label	Primary Function	Secondary Function
S5 SPINNER	Spinner Feed	Prewet(Spn Rvs)
S4 CONV.	Conveyor/Auger Feed	
S12 ANTI-ICE	Anti-ice Feed, Boom L	Cross CONV(Cross Cnv, Metric) Spinner Rvs(Spn Rvs)
S11 LIQUID	Pre-wet Feed	Boom L (3Boom Anti-icing) Spinner Fwd(Spn Rvs)
G1 GATE RAISE	Gate Raise Feed	Cross CONV1(Cross Cnv, Imperial) Boom L (Liquid+)
G2 GATE LOWER	Gate Lower Feed	Cross CONV2(Cross Cnv, Imperial) Boom Right(Liquid+)
GS 12V	12V Output W/GS	Boom C(3 Boom Anti-icing) Chute Left(Pattern) Air Gate(Air Gate) Boom C(Liquid+) Cross Cnv Dig(Cross Cnv, Metric)
REVERSE	Auger Reverse Feed	Boom R(3 Boom Anti-icing) Chute Right(Pattern) Cross Dig(Cross Cnv, Metric)
S3 GSS	Ground Speed Input	
S6 CSS	Conv Speed feedback	
S9 LSS	Pre-wet Flow Feedback	Spinner Motor Speed (Wt/Area)
S10 GATE SS	Gate Pos Feedback	
S8 SPIN SS	Anti-ice Flow Feedback	
AUX SS	Temp &Pressure Inputs	Chute Position Input (Pattern)

CS550Lite Cable Harness (PN: R987376367)

Cable Label	Primary Function	Secondary Function
S5 SPINNER	Spinner Feed	Boom L(3 Boom Anti-icing) Prewet(Spn Rvs)
S4 CONV.	Conveyor/Auger Feed	Boom R(3 Boom Anti-icing)
S11 LIQUID	Pre-wet Feed	Boom C(3 Boom Anti-icing) Spinner Fwd(Spn Rvs)
S7 REVERSE	Anti-icing/Auger Reverse /GS12/Air Gate	Option selectable, one function only
S3 GSS	Ground Speed Pulse	
S6 CSS	Conveyor Speed Feedback	
S9 LSS	Pre-wet Flow Meter Feedback	
S8 SPIN SS	Spinner Speed Feedback	Anti-ice Flow Feedback
AUX SS	Pressure Input	

9 Installation Notes

9.1 Step 1

Unpack all the supplied parts and check the packing list for completeness.

9.2 Step 2

Untie and layout all the cables supplied, to ensure proper lengths.

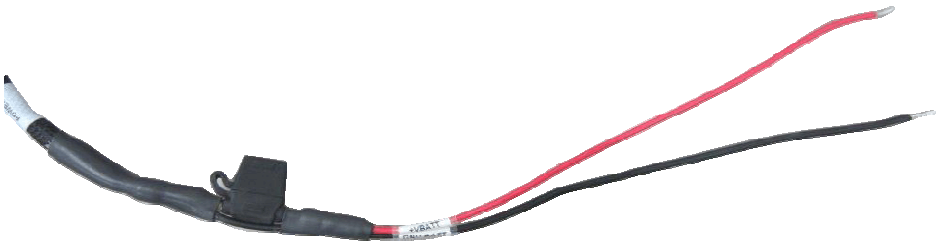
Note: Electromagnetic devices such as relays, magnetic switches and solenoids, can generate large negative voltage spikes. These large spikes are conducted into the vehicle's electrical system and may adversely affect all electronic devices including engine computers. It is strongly recommended that these electromagnetic devices be electrically suppressed. See warnings and instructions in Body Builder manuals.

1. Connect the Controller 12V power supply and the ground wire using a dedicated circuit only. (Connect to the ignition disconnect, if available. Otherwise, connect directly to the battery.)
2. Ensure wiring for transmission devices such as radios, etc. are not attached to the controller or bundled with the controller wiring.
3. A sufficiently large distance to radio systems must be maintained.
4. Make sure all mounting posts are properly grounded; a direct ground wire to the negative battery post is recommended. Floor mats and undercoating will interfere with proper grounding.
5. Disconnect the battery terminals before welding on a vehicle with electronic equipment.
6. Disconnect the negative battery terminal when wiring electronic devices.
7. Mount the consoles so that they do not interfere with vehicle controls or obstruct visibility.
8. Mount microcontrollers so that oil and salt spray do not contact the housing.
9. Route cables so that they will not be abused, damaged or immersed in oil.
10. When routing cables through metal opening, always use grommets to prevent cable damage.
11. When running wires around a dump box pivot point, ensure no connectors can be separated when the hoist is activated.
12. Tie cables clear of all moving parts like drive-axles or conveyor chains.
13. Observe the cable labeling (under the clear cover) for the proper termination of inputs and outputs.
14. Use dielectric grease on all external cable connections and pins to ensure proper corrosion protection.
15. Thoroughly clean all power and ground terminals before connecting power harness.
16. Stand clear of any hydraulic functions when first powering up the system

17. DO NOT drill holes in any of the enclosures.
18. DO NOT mount components onto the sides, top or front of the CS-150.
19. DO NOT re-wire any of the consoles or cable harnesses.
20. DO NOT weld on the vehicle without completely disconnecting all electronic consoles.
21. The cylindrical post on which the CS-150 console rests is the only point that may be used for mounting purposes as no circuitry or wiring is present inside it.

Warning:

- DO NOT remove the fuse holder on the main harness.



- Replace fuse with appropriate rating (see fuse chart)

2-2 MAIN HARNESS	R987376367	10A
4-4 MAIN HARNESS	R987376368	15A
150 RCE IN-VALVE HARNESS	R987376374	20A
150 RCE IN-CAB HARNESS	R987376369	20A

***Failure to maintain proper fuse protection can lead to product damage and fire hazard not covered by warranty.

Failure to follow the recommendations will void your warranty.

10 Installation Test Checklist

Work order #:	**Date:**
Part number:	**Software Version:**
Serial number:	**Signature:**

After all controller cables and hydraulics are plumbed – vehicle hopper empty

OK	NOTES
☐	Start the vehicle – engage hydraulic pump
☐	Power on display, check for backlight and display operation
☐	Press the “speed” field and hold the “up arrow” for 5 seconds – Release (Turning on simulated ground speed)
☐	Press the up arrow again to increase speed to 20
☐	Rotate all the dials clockwise to 5 – rate should change
☐	Verify that the conveyor/auger is operating – feedback?
☐	Verify that the spinner is operating
☐	Verify that the liquid pump is operating – feedback?
☐	Verify that the gate cylinder and sensor is operating (if equipped)
☐	Press the speed down arrow to lower the speed to 0 – press the speed field to exit
☐	Drive the vehicle to check that vehicle speed registers
☐	Activate the joystick as defined in the OSD test drawing – verify proper actuation
☐	Test special functions – power float, low oil, emergency raise
☐	Test auxiliary switches for proper operation

The above procedure is a simple way to verify system connections, hydraulics operation, and sensor feedback. It may not work for all the systems. The reliable way to test is to follow the steps in 550 Calibration Manual.

11 Warning

This glass LCD touch screen display has been extensively tested and validated against its intended use. This glass could crack and break if the display is dropped on to a hard surface or receives a substantial impact. If the glass chips or cracks, discontinue use and contact Bosch Rexroth Canada to have it replaced - do not touch or attempt to remove the broken glass. Any misuse/abuse causing damage, whether intended or not, will become the sole responsibility of the owner/buyer which will render the warranty of this product, void.

Notes

LIABILITY NOTICE

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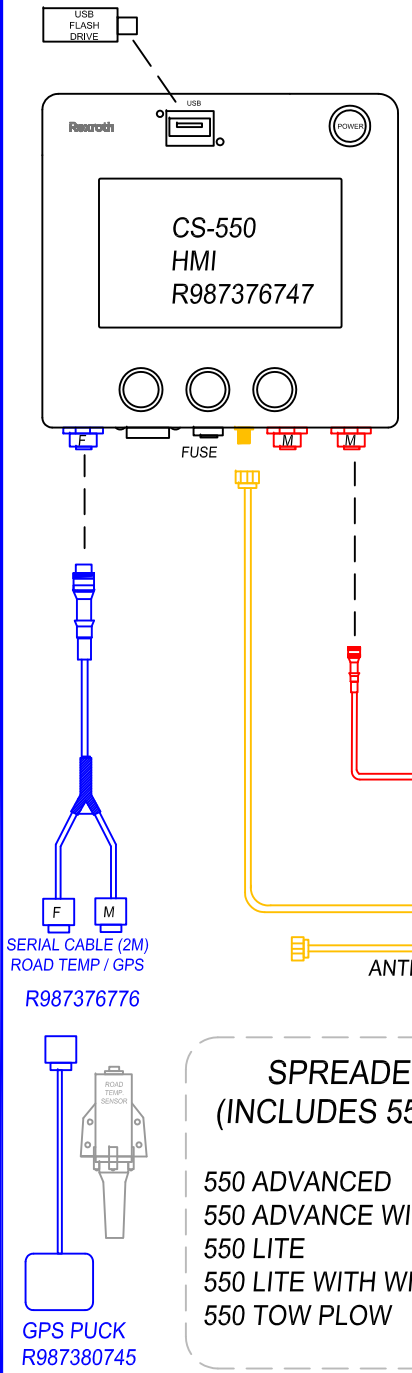


CANBUS CABLE 3M R987373330 (43-10995)
CANBUS CABLE 5M R987373335 (43-12165)

WIFI ANTENNA
R987375239

ANTENNA EXTENSION (3M)
R987376088

SERIAL CABLE (2M)
ROAD TEMP / GPS
R987376776

GPS PUCK
R987380745

SPREADER PACKAGES
(INCLUDES 550, BKT, RC, KEY)

550 ADVANCED	MNR#- R987376745
550 ADVANCE WITH WIFI	MNR#- R987376746
550 LITE	MNR#- R987392830
550 LITE WITH WIFI	MNR#- R987396924
550 TOW PLOW	MNR#- R987396638

HYD. PRESS/TEMP SENSOR
R901341687

HYD. PRESS/TEMP ADAPTER (2M)
R987397163

CHUTE ADAPTER (10M)
R987394903

AUXILIARY- R987373331(2M)
1 - WHITE - MATERIAL CHANGE
2 - BROWN - GND
3 - GREEN - MATERIAL DETECT
4 - YELLOW - HYD. PRES./CHUTE
5 - GREY - HYD. TEMP.
6 - PINK - REMOTE BLAST
7 - BLUE - 12V SWITCHED
8 - RED - REMOTE PAUSE

CAN BUS
F
R987373331 2M
(43-11062)
AUX
F
15A
12V POWER
M
PAUSE
BLAST

ANTI-ICE (USE E6)
GS 12V
S11 LIQUID
REVERSE
LEFT
CENTER
RIGHT
BALL VALVES

R987376368
R987376367
RC 2-2/21
NO GATE CONTROL
RC 4-4/20
GATE CONTROL
AND LIQUID+

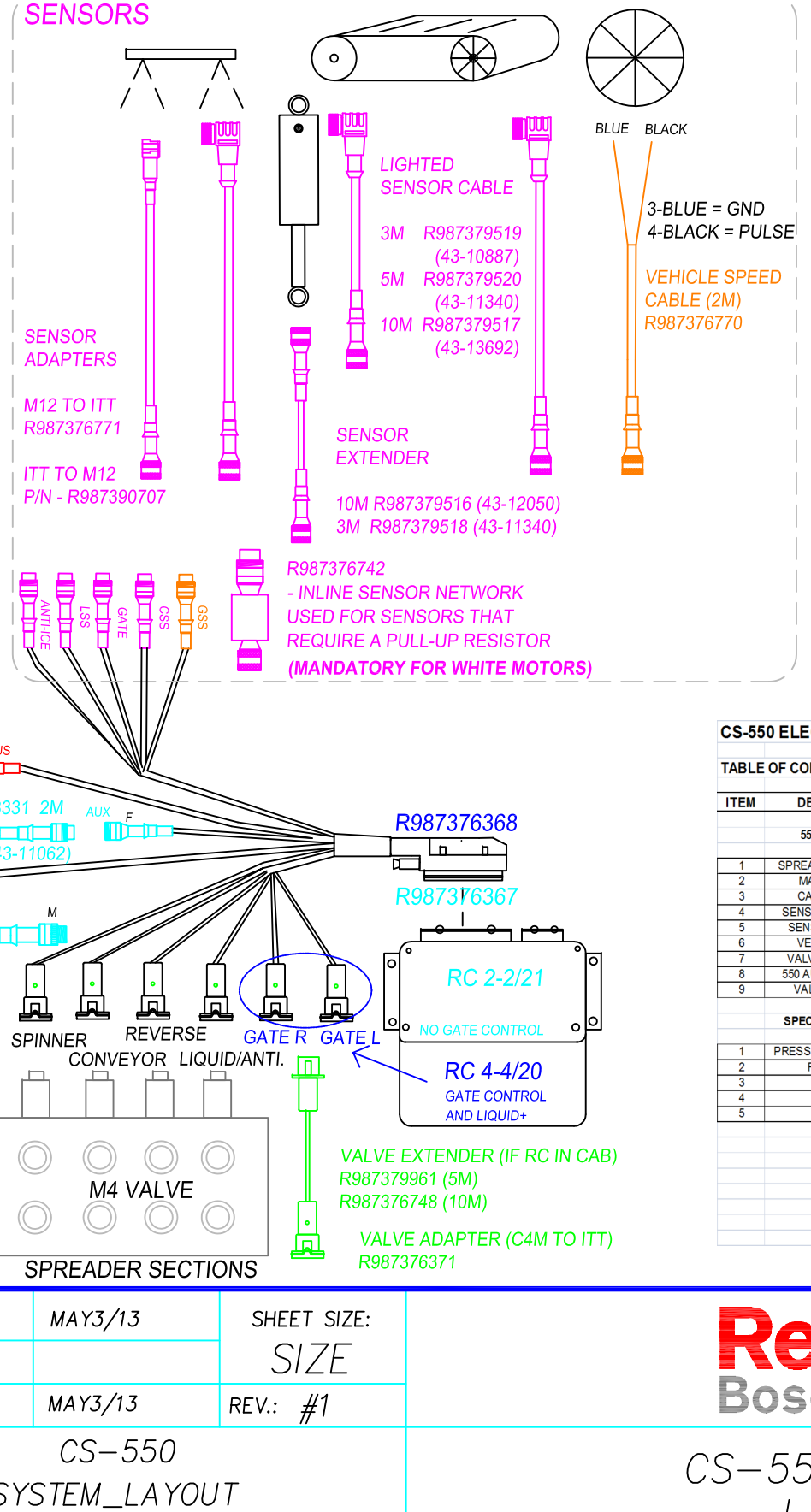
SPINNER
REVERSE CONVEYOR
LIQUID/ANTI.
GATE R
GATE L

M4 VALVE
SPREADER SECTIONS

VALVE EXTENDER (IF RC IN CAB)
R987379961 (5M)
R987376748 (10M)

VALVE ADAPTER (C4M TO ITT)
R987376371

SENSORS



SENSOR ADAPTERS

M12 TO ITT
R987376771

ITT TO M12
P/N - R987390707

LIGHTED SENSOR CABLE

3M R987379519 (43-10887)
5M R987379520 (43-11340)
10M R987379517 (43-13692)

SENSOR EXTENDER

10M R987379516 (43-12050)
3M R987379518 (43-11340)

R987376742
- INLINE SENSOR NETWORK USED FOR SENSORS THAT REQUIRE A PULL-UP RESISTOR
(MANDATORY FOR WHITE MOTORS)

BLUE BLACK

3-BLUE = GND
4-BLACK = PULSE

VEHICLE SPEED CABLE (2M)
R987376770

NOTE:

THIS DRAWING IS INTENDED FOR GENERAL LAYOUT AND CABLE IDENTIFICATION. SPECIFIC FUNCTIONALITY IS NOT DEFINED.

PART #'S MAY CHANGE WITHOUT NOTICE

CS-550 ELECTRONIC SYSTEM BUILDER

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4	SENSOR EXTENSIONS	B6		
5	SENSOR NETWORK	C6	PULL-UP RESISTORS (WHITE MOTOR)	
6	VEHICLE SPEED	B7		
7	VALVE EXTENSIONS	E6	IF RC IN CAB	
8	550 AUXILIARY CABLE	E3		
9	VALVE ADAPTER	E6	(C4M TO ITT) FOR OLD SCB	
	SPECIAL FUNCTIONS			
1	PRESSURE/TEMP/CHUTE	D3		
2	ROAD TEMP	D0		
3	WIFI	D2	EXTENSION?	
4	GPS PUCK	E0		
5	ANTI-ICE	E4	USE C4-C4 EXTENSIONS	

REV.	REVISION	BY	DATE
1	SEE_TABLE_OF_CONTENTS_FOR_DETAILS	I.N.	REVDT
#			
#			
#			
#			

DRAWN BY: T.GIES — MAY3/13
DESIGN ENG.: T.GIES — MAY3/13
CUSTOMER: CS-550 SYSTEM_LAYOUT
SCALE: SCALE
DRAWING NO.: 550_150
SHEET SIZE: SIZE
REV.: #1

Rexroth
Bosch Group

CS-550_SYSTEM LAYOUT

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RCE JOYSTICK HARNESS (IN VALVE)

ELECTRONICS MOUNTED IN VALVE ENCLOSURE

R987376374

RCE HARNESSES (IN CAB)

P/N - R987376369 +

P/N -R987376370 SOLENOIDS (7M)

LOG DATA KEY R987376779

PROGRAM KEY R987376781

CS-550 HMI R987376747

+VBATT 20A

12V POWER

GND BATT

JUNCTION

RCE

AUXILIARY- R987373331 2M

1 - WHITE -	22 - PTO ENABLE	(43-11062)
2 - BROWN -	23 - V2	
3 - GREEN -	49 - V3	
4 - YELLOW -	10 - BODY UP / AUTO RAISE	
5 - GREY -	48 - LOW OIL / FLOAT 2	
6 - PINK -	12V SWITCHED	
7 - BLUE -	67 - 5V 100mA	
8 - RED -	12 - GND	

AUX

PROX

MOUNT RC CONTROLLER WITH CONNECTOR(S) DOWN

RCE 12-4/22 R987376797

PLOW POSITION (PROX) -USE SENSOR CABLES (B6) SEE CS-150 VALVE LAYOUT FOR DETAILS (OSD)

POWER FLOAT BLOCK 1 FUNCTION

LOW OIL BLOCK 0.5 FN

SPINNER REVERSE BLOCK 0.5 FN

C4 TO DIN (0.3M) R987376373

CS-150 ARMREST

M4 VALVE - 8 FUNCTIONS MAX -6 PROPORTIONAL -2 ON-OFF

JOYSTICK SECTIONS

CANBUS CABLE 0.6M R987373332 (43-11107)

CANBUS CABLE 3M R987373330 (43-10995)

CANBUS CABLE 5M R987373335 (43-12165)

FUSE

WIFI ANTENNA R987375239

WIFI ANT

ANTENNA EXTENSION (3M) R987376088

SERIAL CABLE (2M) ROAD TEMP / GPS R987376776

GPS PUCK R987380745

SPREADER PACKAGES (INCLUDES 550 AND RC)

550 ADVANCED	MNR#- R987376745
550 ADVANCE WITH WIFI	MNR#- R987376746
550 LITE	MNR#- R987392830
550 LITE WITH WIFI	MNR#- R987396924
550 TOW PLOW	MNR#- R987396638

HYD. PRESS/TEMP SENSOR R901341687

HYD. PRESS/TEMP ADAPTER R4 (2M) R987397163

CHUTE ADAPTER (10M) R987394903

AUXILIARY- R987373331 (2M)

1 - WHITE -	MATERIAL CHANGE
2 - BROWN -	GND
3 - GREEN -	MATERIAL DETECT
4 - YELLOW -	HYD. PRES./CHUTE
5 - GREY -	HYD. TEMP.
6 - PINK -	REMOTE BLAST
7 - BLUE -	12V SWITCHED
8 - RED -	REMOTE PAUSE

15A 12V POWER

CAN BUS

R987373331 2M (43-11062)

CHG MAT

PAUSE BLAST

ANTI-ICE (USE E6)

GS 12V

S11 LIQUID REVERSE

LEFT CENTER RIGHT

BALL VALVES

M4 VALVE

SPREADER SECTIONS

SPINNER CONVEYOR REVERSE LIQUID/ANTI. GATE R GATE L

MOUNT RC CONTROLLER WITH CONNECTOR(S) DOWN

R987376368

R987376367

RC 2-2/21 NO GATE CONTROL

RC 4-4/20 GATE CONTROL AND LIQUID+

VALVE EXTENDER (IF RC IN CAB) R987379961 (5M) R987376748 (10M)

VALVE ADAPTER (C4M TO ITT) R987376371

SENSORS

SENSOR ADAPTERS

M12 TO ITT R987376771

ITT TO M12 P/N - R987390707

LIGHTED SENSOR CABLE

3M R987379519 (43-10887)

5M R987379520 (43-11340)

10M R987379517 (43-13692)

SENSOR EXTENDER

10M R987379516 (43-12050)

3M R987379518 (43-11340)

BLUE BLACK

3-BLUE = GND

4-BLACK = PULSE

VEHICLE SPEED CABLE (2M) R987376770

ANTI-ICE LSS GATE CSS GSS

R987376742 - INLINE SENSOR NETWORK USED FOR SENSORS THAT REQUIRE A PULL-UP RESISTOR (MANDATORY FOR WHITE MOTORS)

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CS-550 / 150 ELECTRONIC SYSTEM BUILDER

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ITEM	DESCRIPTION	COORDINATES X,Y	DETAILS	CHECK
	550 SPREADER			
1	SPREADER PACKAGES	E1	DISPLAY AND RC INCLUDED	
2	MAIN HARNESS	D7	ADVANCED OR LITE	
3	CANBUS CABLE	C2		
4	SENSOR EXTENSIONS	B6		
5	SENSOR NETWORK	C8	PULL-UP RESISTORS (WHITE MOTOR)	
6	VEHICLE SPEED	B7		
7	VALVE EXTENSIONS	B8	IF RC IN CAB	
8	550 AUXILIARY CABLE	E3		
9	VALVE ADAPTER	B8	(C4M TO ITT) FOR OLD SCS	
	150 ARMREST			
1	RCE CABLES	A3	IN-VALVE OR IN-CAB	
2	POWER FLOAT	B4	PROX?, NEW C4 BLOCK?	
3	150 AUXILIARY	B2		
4	CANBUS CABLE	C2		
5	LOW OIL, SPIN. REV.	B3	ADAPTER REQUIRED	
	SPECIAL FUNCTIONS			
1	PRESSURE TEMP HOUSE	D3		
2	ROAD TEMP	D0		
3	WIFI	D2	EXTENSION?	
4	GPS PUCK	E0		
5	ANTI-ICE	E4	USE C4-C4 EXTENSIONS?	

1	SEE_TABLE_OF_CONTENTS_FOR_DETAILS	I.N.	REVDT	DRAWN BY: T.GIES	AUG22_14	SHEET SIZE: SIZE
#						
#				DESIGN ENG.: T.GIES	AUG22_14	REV.: #1
#				CUSTOMER: CS-550_150 SYSTEM_LAYOUT		
#						
REV.	REVISION	BY	DATE	SCALE: SCALE	DRAWING NO.: 550_150	

Rexroth Bosch Group

CS-550_SYSTEM LAYOUT